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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,125 11/19/2003		Paul E. Jacobs	PA040101	9099
23696	7590 06/29/2006	EXAMINER		
QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121			DINH, DUC Q	
			ART UNIT	PAPER NUMBER
			2629	

DATE MAILED: 06/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/718,125	JACOBS ET AL.
Office Action Summary	Examiner	Art Unit
	DUC Q. DINH	2629
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		·
1) Responsive to communication(s) filed on 19 No. 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under Example 1.	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		
Application Papers		•
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Identified or b) objected to by the Identified or by the Ident	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the priorical copies of</li></ul>	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on Noed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 02/23/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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#### **DETAILED ACTION**

This Office Action is responsive to the Application filed on November 19, 2003.
 Claims 1-9 are pending in the application and being examined.

### Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on February 23, 2004 is being considered by the examiner.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 and 8-9 rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 2005/007348 A1), hereinafter Lee in view of Finke-Anlauff (U.S Patent No. 6,850,226).

In reference to claim 1, Lee discloses (1 in Fig. 2) an apparatus comprising: a display (111) for presenting information to a user;

a housing (11) connected to the display (111) for supporting the display; and a keyboard (12 and 13) deployable through a sliding connection to the housing (keypad 12 and 13 is slidably combined with the housing 11 and be slid out from predetermined distance from the bottom of the main housing 11 [paragraph 0013] the keyboard deployable in multiple directions (keypad 13 can be stored behind and parallel to the first sliding keypad 12 and be slid out a predetermined distance from the bottom of the first sliding keypad 12 in another direction perpendicular to the said direction to

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expose a plurality of keys 131 on the second sliding keypad 13 [0013] the information (image on display 11) presented to the user through the display is oriented based on:

deployment of the keyboard (Fig. 2 and 3 Fig. 2 and 3 show image on the display is present on the deployment of the keypad 12 or 13.

direction of deployment of the keyboard; (Fig. 2 and 3 show image on the display is present on the direction deployment of the keypad 12 or 13, the sensor 15 and 16 trigger and send command to the CPU 141, the CPU 141 then sends a command to the display driver 142 to adjust the image and the direction according to the orientation sent by sensors 15 and 16 [paragraph 0015]);

Lee does not disclose input from an application resident on the device, the application prescribes the orientation of the information presented on the display to the user in relation to the direction of keyboard deployment.

Finkee-Anlauff discloses a mobile device with slidable display screen in which screen orientation is set according to the most convenient view in each application, i.e. application resident on the mobile device, control processor 25 (Fig. 8) can instruct the display driver of display 6 to rotate the display [information] according to the software application in use; col. 4, lines 30-35).

It would have been obvious for one of ordinary skill in the art at the time of the invention to provide control processor to instruct the driver of the display to rotate the information in the mobile device according to the application in use in the device of Lee as taught by Finkee-Anlauff because it would provide screen orientation setting according to the most convenient view in each application (col. 4, lines 30-32 of Finkee-Anlauff).

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In reference to claim 2, Lee discloses the keyboard (12 and 13) is deployed in first direction (Fig. 3) and a second direction (Fig. 2) as claimed.

In reference to claim 3, Lee discloses the first keyboard deployment direction (see Fig. 3) presents a QWERTY [0016] key arrangement and the second keyboard deployment direction (see Fig. 2) presents a phone style key arrangement [0016].

The apparatus of claim 2 wherein the device is operable as a PDA and a phone (the apparatus in Fig. 1-4 may be a mobile phone through combining a personal digital assistant [0016]).

In reference to claim 5, Lee discloses the device is operable in a wireless environment the (the hand-held apparatus in Fig. 1-4 may be a mobile phone or smart phone, i.e. having wireless connection, through combining a personal digital assistant [0016]).

In reference to claim 6, Lee discloses the sliding connection is a track and carrier type of connection (the first sliding keypad 12 is slidably combined with the main housing, i.e. the carrier, by means of first rail 18, i.e. a track. Similarly, the keypad 13 is slidably combined with the main housing by means of the second rail 19. See Figs. 2 and 3, paragraph 13).

In reference to claim 8, Lee discloses a method for presenting information on a display to a user of a device, the device (hand-held device 1, Fig. 1-3) having a keyboard (12 and 13) deployable through a sliding connection, the keyboard deployable in multiple directions, the method comprising (keypad 12 and 14 is deployed by sliding connection with rails 18 and 19 in multiple direction as shown in Fig. 2 and 3): the method comprising;

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orienting information (image on display 111) presented on the display with reference to:

deployment of the keyboard (image on display is presented in according to the deployment of the keyboard as shown in Figs 2 and 3);

direction of deployment of the keyboard the sensor 15 and 16 trigger and send command to the CPU 141, the CPU 141 then sends a command to the display driver 142 to adjust the image and the direction according to the orientation sent by sensors 15 and 16 [paragraph 0015]);

Lee does not disclose input from an application resident on the device, the application prescribes the orientation of the information presented on the display to the user in relation to the direction of keyboard deployment.

Finkee-Anlauff discloses a mobile device with slidable display screen in which screen orientation is set according to the most convenient view in each application, i.e. application resident on the mobile device, control processor 25 (Fig. 8) can instruct the display driver of display 6 to rotate the display [information] according to the software application in use; col. 4, lines 30-35 of Finkee-Anlauff).

It would have been obvious for one of ordinary skill in the art at the time of the invention to provide control processor to instruct the driver of the display to rotate the information in the mobile device according to the application in use in the device of Lee as taught by Finkee-Anlauff because it would provide screen orientation setting

In reference to claim 9, Finkee-Anlauff discloses orienting information presented on the display with reference to input by the user (the display [information] orientation on

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screen 2 is accomplished either manually, by a switch, or automatically by instructions from the control microprocessor of the device (col. 3, lines 35-40; col. 4, lines 30-36).

It would have been obvious for one of ordinary skill in the art at the time of the invention provide the control switch to rotate the information in the mobile device according to the application in use in the device of Lee as taught by Finkee-Anlauff because it would provide screen orientation setting to rotate the display [information] according to the software application in use; col. 4, lines 30-35).

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 2005/007348 A1), hereinafter Lee, in view of Finkee-Anlauff (U.S Patent No. 6,850,226) as applied to claims 1-6 and 8-9 above and further in view of Pihlaja (U.S Patent No. 7,009,599).

In reference to claim 7, the combination of Lee and Finkee-Anlauff does not disclose the display is a touch sensitive screen. Pihlaja discloses a mobile phone device (Fig. 5) having a display device (103) is a touch sensitive screen for soft buttons 501.

It would have been obvious for one of ordinary skill in the art at the time of the invention to provide the touch sensitive screen in the display of the combination of Lee and Finkee-Anlauff as taught by Pihlaja because it would provide more control functions for the hand-held device by using soft keys (501) in the display device.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUC Q DINH whose telephone number is (571) 272-7686. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUC Q DINH Examiner

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DOD

June 24, 2006